

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P859382

Luminaire Tested: **LD4C65D010 EU4659040 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C65D010 EU4659040 4LBMDSWH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

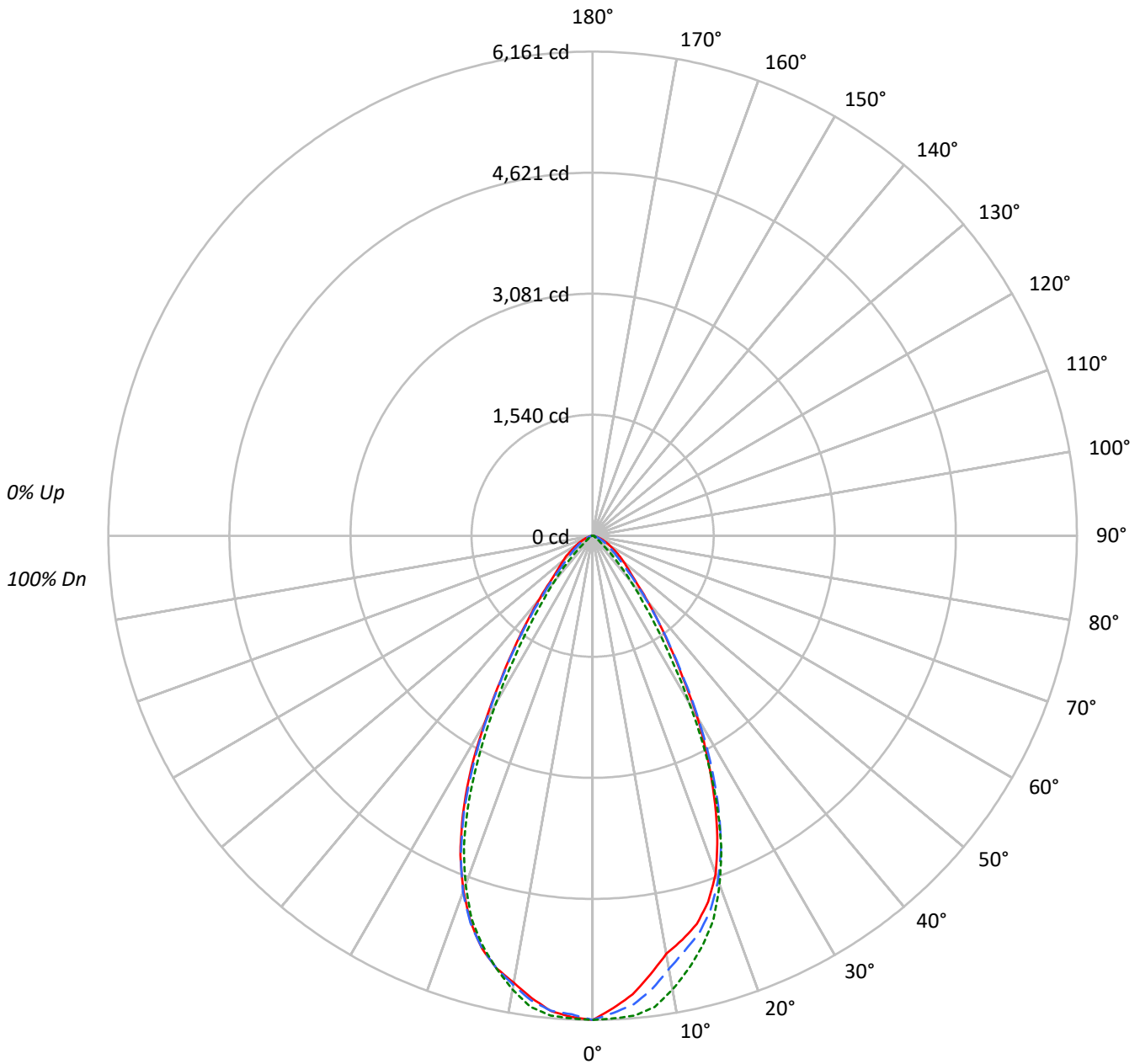
Lumens per Lamp: N/A
Luminaire Lumens: 5609.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	756949	756949	756949
5°	722289	755734	748692
10°	673668	731239	720548
15°	650525	686837	691670
20°	598388	617057	628248
25°	495964	504992	529500
30°	377288	348945	388098
35°	255455	209067	258304
40°	173974	119799	168633
45°	120681	60340	114078
50°	98201	24560	91836
55°	79485	15293	72353
60°	63122	11696	57274
65°	49796	9680	44273
70°	37608	8549	34196
75°	27104	6788	24825
80°	20163	6721	16838
85°	13391	6766	13391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.5	10.1
10°-20°	1488.4	26.5
20°-30°	1707.7	30.4
30°-40°	1037.4	18.5
40°-50°	444.6	7.9
50°-60°	213.3	3.8
60°-70°	103.7	1.8
70°-80°	38.5	0.7
80°-90°	8.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3762.6	67.1
0°-40°	4800.1	85.6
0°-60°	5457.9	97.3
0°-90°	5609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5609.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6161	6161	6161	6161	6161	
5°	5857	5985	6128	6066	6071	544
15°	5115	5234	5400	5434	5438	1424
25°	3659	3778	3725	3868	3906	1660
35°	1703	1727	1394	1684	1722	1092
45°	695	618	347	557	657	564
55°	371	276	71	247	338	335
65°	171	114	33	105	152	174
75°	57	38	14	33	52	63
85°	10	10	5	5	10	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4
2.5°	6013.9	6080.5	6075.8	6132.9	6147.1	6132.9	6094.8	6132.9	6128.1
5°	5856.9	5933.0	5985.4	6080.5	6128.1	6118.6	6066.2	6075.8	6071.0
7.5°	5628.5	5723.7	5814.1	5956.8	6047.2	6042.5	5966.3	5952.1	5933.0
10°	5400.2	5490.5	5595.2	5742.7	5861.7	5880.7	5804.6	5785.5	5776.0
12.5°	5266.9	5338.3	5409.7	5538.1	5642.8	5680.9	5638.0	5642.8	5638.0
15°	5114.7	5186.0	5233.6	5328.8	5400.2	5452.5	5433.5	5462.0	5438.2
17.5°	4886.3	4971.9	4991.0	5062.3	5114.7	5148.0	5167.0	5195.6	5157.5
20°	4577.0	4643.7	4667.4	4696.0	4719.8	4762.6	4819.7	4848.2	4805.4
22.5°	4144.1	4272.5	4267.8	4253.5	4277.3	4291.6	4382.0	4429.6	4396.2
25°	3658.8	3792.0	3777.7	3720.6	3725.4	3753.9	3868.1	3930.0	3906.2
27.5°	3149.7	3273.4	3240.1	3130.7	3102.1	3144.9	3292.4	3363.8	3349.5
30°	2659.6	2740.5	2688.2	2493.1	2459.8	2512.1	2702.5	2773.8	2735.8
32.5°	2131.5	2193.4	2169.6	1931.7	1874.6	1926.9	2150.5	2217.2	2174.3
35°	1703.3	1760.4	1727.1	1446.4	1394.0	1451.1	1684.3	1760.4	1722.3
37.5°	1365.5	1408.3	1365.5	1065.8	1018.2	1075.3	1298.9	1398.8	1351.2
40°	1084.8	1118.1	1061.0	785.0	747.0	775.5	984.9	1084.8	1051.5
42.5°	856.4	880.2	818.3	575.7	532.9	570.9	742.2	832.6	813.6
45°	694.6	694.6	618.5	399.7	347.3	385.4	556.7	651.8	656.6
47.5°	594.7	580.5	485.3	266.4	199.8	252.2	442.5	542.4	556.7
50°	513.8	494.8	399.7	195.1	128.5	180.8	366.4	466.3	480.5
52.5°	442.5	428.2	333.0	152.3	90.4	138.0	309.3	404.4	418.7
55°	371.1	361.6	276.0	118.9	71.4	104.7	247.4	328.3	337.8
57.5°	304.5	290.2	223.6	99.9	57.1	85.6	204.6	271.2	280.7
60°	256.9	242.6	180.8	80.9	47.6	66.6	166.5	223.6	233.1
62.5°	214.1	199.8	147.5	66.6	38.1	57.1	133.2	180.8	190.3
65°	171.3	161.8	114.2	52.3	33.3	42.8	104.7	142.7	152.3
67.5°	138.0	128.5	90.4	42.8	28.5	33.3	80.9	114.2	123.7
70°	104.7	95.2	66.6	33.3	23.8	28.5	61.9	85.6	95.2
72.5°	76.1	71.4	52.3	28.5	19.0	23.8	42.8	61.9	71.4
75°	57.1	52.3	38.1	19.0	14.3	19.0	33.3	47.6	52.3
77.5°	38.1	38.1	28.5	14.3	14.3	14.3	23.8	33.3	33.3
80°	28.5	23.8	19.0	9.5	9.5	9.5	14.3	23.8	23.8
82.5°	19.0	14.3	14.3	9.5	9.5	9.5	9.5	14.3	14.3
85°	9.5	9.5	9.5	4.8	4.8	4.8	4.8	9.5	9.5
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)